

3

JOURNAL
OF THE
BOSTON SOCIETY
OF
CIVIL ENGINEERS

VOLUME 2

1915

CONTENTS AND INDEX



Published monthly, excepting July and August, by the Society,
715 Tremont Temple, Boston, Massachusetts.

JOURNAL
OF THE
BOSTON SOCIETY
OF CIVIL ENGINEERS
VOLUME 2
1915

Copyright, 1915, by the Boston Society of Civil Engineers.

NOTE. — This Society is not responsible for any statement made or opinion expressed in its publications.

CONTENTS.

VOLUME II, 1915.

For alphabetical index, see page v.

No. 1. JANUARY.

	PAGE
The Commission-Manager Form of Government. <i>Henry M. Waite</i>	I
The Mechanics of Reinforced Concrete. Discussion by <i>John R. Nichols,</i> <i>Henry T. Eddy</i> and <i>C. A. P. Turner</i>	23

No. 2. FEBRUARY.

The Economic Depth of Trickling Filters. <i>Harrison P. Eddy</i>	49
The Depth of Filtering Material and Trickling Filter Efficiency. <i>H. W. Clark</i>	57
The Economic Depth of Trickling Filters. Discussion by <i>George W. Fuller</i>	63
Toilet Regulations for Industrial Establishments. Report of Committee,	79

No. 3. MARCH.

Insurance as an Aid to Engineers. <i>Nathan H. Daniels</i>	91
The Hydro-Electric Power Plant at the Wachusett Dam, Clinton, Mass. Discussion by <i>Frederic P. Stearns, Dexter Brackett, H. K. Barrows,</i> <i>W. L. Puffer, Charles M. Allen</i> and <i>Alfred O. Doane</i>	109
The Commission-Manager Form of Government. Discussion by <i>John Balch Blood</i>	121
Memoirs of Deceased Members:	
<i>George Blinn Francis</i>	125
<i>Albert H. Howland</i>	131
<i>Lucian A. Taylor</i>	132

No. 4. APRIL.

The Elimination of Grade Crossings. <i>L. Bayles Reilly</i>	135
The Duties and Sphere of Action of a Local Engineering Society with Special Reference to the Boston Society of Civil Engineers. (Ad- dress at the Annual Meeting.) <i>Harrison P. Eddy</i>	149
The Civil Engineer's Capacity for Leadership. (Address at the Annual Meeting of the Sanitary Section.) <i>Bertram Brewer</i>	165

CONTENTS.

No. 5. MAY.

	PAGE
Ground Water Supplies. <i>William S. Johnson</i>	169
The Economic Depth of Trickling Filters. Discussion by <i>Harrison P. Eddy</i>	191
Insurance as an Aid to Engineers. Discussion by <i>F. B. Sanborn</i> and <i>N. H. Daniels</i>	199

No. 6. JUNE.

The Sewage Disposal Works at Fitchburg, Mass. <i>David A. Hartwell</i> ...	203
The Public Service Corporation and the Municipality. <i>James Logan</i> ...	223
Discussion by <i>Alonzo R. Weed</i> and <i>Frederick J. Macleod</i>	249

No. 7. SEPTEMBER.

Some Special Methods of Reinforced Concrete Design. <i>M. J. Lorente</i> ..	265
Discussion by <i>W. W. Clifford</i> and <i>C. H. Mangold</i>	280
Ground Water Supplies. Discussion by <i>Robert Spurr Weston</i> , <i>Allen Hazen</i> , <i>Henry A. Symonds</i> and <i>William S. Johnson</i>	283

No. 8. OCTOBER.

The Federal Valuation of the Boston and Maine Railroad. <i>F. C. Shepherd</i>	291
Memoirs of Deceased Members:	
<i>Alexis H. French</i>	327
<i>Benjamin Greeley Fogg</i>	331
<i>Isaac Rich</i>	332

No. 9. NOVEMBER.

The Arrowrock Dam. <i>Charles H. Paul</i>	337
Memoir of <i>Dexter Brackett</i>	351

No. 10. DECEMBER.

The South End Sewer System of Boston. <i>Edgar S. Dorr</i>	355
Laying a Small Cast-Iron Pipe across a Narrow Stream. <i>Charles R. Gow</i> ,	373
External Corrosion of Water Pipe by Sulphuric Acid. <i>Harrison P. Eddy</i> ,	377